

Name \_\_\_\_\_ Date \_\_\_\_\_

### *REVIEW ON REAL NUMBERS*

Name the subsets of the real numbers to which each of the following belongs.

1. $\frac{4}{9}$	
2. -6.2	
3. $\sqrt{5}$	
4. -8	
5. $0.\overline{19}$	

Show that each decimal can be written as a quotient of two integers.

6. 0.12	7. 2.175
8. $0.\overline{7}$	9. $0.\overline{36}$

Simplify.

10. $-4 + 8 \div 2 - 6$	11. $10 - 2 \cdot 3 + 8 \div 4$
12. $ 6 - 8  - 3 4 + 1  - 12$	13. $6 5 - 9  - 3 7 - 9  + 6$
14. $\frac{-8(6 - 8) + 2(8 - 6)}{8 + 16 \div 2}$	15. $\frac{(6 + 3) - (2 + 1) + 4 \div 2}{3 - 4}$

Evaluate.

16. $a^2 - 3(b - 2)^2 + ab$ for $a = 4$ and $b = -4$
17. $2(m - 1) + (m - n)^2$ for $m = 2$ and $n = -4$

Identify the property of real numbers illustrated by each of the following.

18. $(4.6)(0) = 0$	19. $5 + (7 + 2) = (5 + 7) + 2$
20. $4(2x - y) = 8x - 4y$	21. $(8)(3) = (3)(8)$
22. $(-4)1 = -4$	23. $(-9) + 9 = 0$